

DESCRIPTIONS OF NEW AUSTRALIAN HETEROCERA.

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MONOCTENIAD.E.

EPIDESMIA BRACHYGRAMMELLA, *n. sp.*

Male, 40 mm. Head, thorax, legs, abdomen and palpi pale ochreous-fuscous; palpi four times the width of eye, beneath fuscous; pectinations of antennæ five. Forewings triangular, costa arched at base, thence almost straight, apex slightly produced; hindmargin slightly sinuate beneath apex, thence bowed oblique; light greyish-ochreous, costal edge somewhat yellowish throughout; a thick black nearly straight streak from innermargin at one-third to middle of disc with a tooth or angulation posteriorly; a similar black streak from two-thirds of innermargin to three-fourths across wing, curved inwards on lower half, and outwards on upper half, with indications of an anterior tooth, almost reaching tooth of previous streak; a black discal dot midway between these above middle; a row of black, paler edged dots from costa near apex to anal angle, between dots and last mentioned streak the ground-colour is clearer ochreous; a hindmarginal row of small black dots; cilia greyish-ochreous. Hindwings with hindmargin nearly straight, apex somewhat prominent; colour as in forewings, somewhat infuscated; a large suffused blackish discal dot in middle of wing; a faint suffused fuscous line beyond this cilia as in forewings.

One specimen from Mr. W. H. F. Hill, of Windsor, Victoria, taken at Croydon, Victoria. Nearest *E. hypenaria*, Gn., but distinct by the two black lines, which, however, do not quite reach the inner-margin, although indicated.

EPIDESMIA PHÆDROPA, *n. sp.*

Male, 32 mm. Head and thorax reddish-fuscous, face and palpi black, palpi three times the width of eye. Antennæ fuscous, basal fourth white, pectinations five. Abdomen and legs whitish, fuscous-tinged. Forewings triangular. Costa nearly straight. Apex rounded, hindmargin bowed, oblique; pale-reddish fuscous, sprinkled with blackish. Costal edge whitish throughout, beneath this a streak of reddish from base to about middle and beneath this a streak of dark-fuscous from base

to beyond middle and suffusedly continued to apex: a dark fuscous dot above inner-margin at two-fifths, another above in middle of disc, and a third beyond middle of disc; a dark fuscous streak from three-fourths of inner-margin to costa near apex, preceded by a paler shade, between this line and hind-margin the ground colour is more purplish; a row of fuscous dots from near apex to anal angle; a hindmarginal row of black dots; cilia whitish, somewhat reddish tinged, tips fuscous tinged. Hindwings with hindmargin nearly straight; dull purplish-white; a black discal dot above middle; a fuscous streak from beyond middle of inner-margin to half-across wing, anteriorly edged with paler; an indistinct subterminal line, edged with paler; hindmarginal dots and cilia as in forewings.

One specimen from Mackay, Queensland, sent by Mr. Rowland Turner. Allied to *oxydervis*, Mey., but differs by the three anterior discal dots, &c.

ONYCHODES HELIOCHRYSA, *n. sp.*

Female, 60 mm. Head, thorax, palpi, and antennæ dark-fawn, antennal pectinations one and a half. Abdomen and legs whitish ochreous. Forewings triangular, posteriorly dilated, costa nearly straight, apex slightly produced, hindmargin slightly sinuate beneath apex, hardly waved, bowed, oblique; dark-fawn colour, with indications of pale ferruginous patches; a purplish dot at base of wing; cilia dark ferruginous, indistinctly tinged with coppery. Hindwings with hindmargin slightly waved, rounded; bright orange; a dark fuscous hindmarginal band, narrowed towards anal angle and ending on vein 6; cilia ochreous grey, infuscated. Forewings beneath with the discal area orange; a large purplish fuscous transverse patch at end of cell. Hindwings greyish, slightly ochreous tinged towards inner-margin.

A handsome species. One specimen from Woodend, Victoria. (*Coll., Kershaw.*)

GEOMETRIDÆ.

EUCHLORIS CHIONOPLACA, *n. sp.*

Male 34 mm. Head and thorax deep green. Abdomen deep green, apex and underside white, above with a series of three small white dorsal spots, and one much larger, suffused anteriorly with ferruginous; a white dot on middle of collar; postorbital rims white. Palpi green above, white below, terminal joint yellowish, apex of second joint white. Antennæ fuscous, pectinations four; terminal two-fifths filiform; middle and posterior legs snow-white, latter with pencil of long white hairs; anterior pair pale-brownish, with whitish tarsal rings. Forewings triangular, costa gently arched, apex rounded, hindmargin crenulate-rounded, oblique; deep grass-green, thinly scaled, and minutely

flecked with white on veins, veins outlined with darker green. Costa dark fuscous, strigulated with white, beneath which is a streak of darker green throughout; a large white spot before middle of hindmargin, followed by a transverse row of small white spots; hindmarginal line darker green, with white spots at extremities of veins; cilia green, terminal half whitish. Hindwings with hindmargin rounded, crenulate, slightly bent on vein 4; colour, hindmarginal dots and cilia as in forewings; a large white patch resting on vein 3 near hindmargin, in shape somewhat like a Maltese cross.

One specimen, Mackay, Queensland, received from Mr. Rowland Turner. Near *speciosa*, Lucas; perhaps it is the male of that species although very different, and I hardly think it possible to be the same.

SELIDOSEMIDÆ.

SELIDOSEMA ZYGOPHORA, *n. sp.*

Male 38, female 42 mm. Head, legs, and antennæ ochreous-whitish. Antennæ spotted with darker; pectinations eight. Face and thorax pale ochreous fuscous. Abdomen ochreous-whitish. Forewings triangular, costa gently arched, hindmargin obliquely rounded; pale-brownish ochreous; a somewhat curved dark fuscous line from one-sixth costa to one-fourth inner-margin, but hardly reaching it, followed by a similar parallel; a short dark fuscous dash on costa before middle, suffusedly continued to inner-margin, indicating median shade; a well (darker at extremities) blackish line from just beyond middle of costa to very near anal angle, with a strong, almost acute, angulation above middle, containing an elongate blackish transverse discal dot, which rests on lower extremity; this line is followed by a similar parallel line; a strongly dentate double-fuscous line from five-sixths costa to anal angle, leaving a narrow interspace of pale ochreous; the ground-colour between the angulated line and these lines is somewhat paler; a hindmarginal row of small black dots; cilia pale fuscous. Hindwings with hindmargin rounded; pale yellow; a small fuscous median discal dot; a suffused pale fuscous double hindmarginal line, indicating submarginal and subterminal; cilia pale yellowish-white.

Two specimens from Croydon, Victoria, taken by Mr. W. H. F. Hill, to whom I am indebted for a specimen. This species has a rather abnormal appearance, being somewhat like a *Pseudoterpna*.

THALAINA HIEROGLYPHICA, *n. sp.*

Male, — mm. Head and thorax white, slightly tinged with ochreous. Forewings with apex somewhat prominent, hindmargin

bowed, slightly waved, silvery-white; markings light brownish, edged with dark fuscous; a streak along basal-fourth of costa; a streak along inner-margin from near base to anal angle; a similar streak along submedian fold from before middle, confluent posteriorly with this and first fascia; a narrow, nearly straight, but somewhat irregular fascia from near costa at about two-fifths to anal angle; an irregular streak running from this fascia above middle to middle of hindmargin, somewhat interrupted before junction with second fascia; a discal spot above anterior extremity of this; second fascia obtusely angulated inwards near costa, running from costa at five-sixths to meet longitudinal median streak before hindmargin; an oblique triangular-like apical mark, two oval spots on hindmargin above middle, upper confluent with apical mark, and two others below middle; cilia white, partially spotted with brown. Hindwings with hindmargin rounded, somewhat waved; white; a moderate suboval or irregular blackish-grey subapical spot. Underside of wings white, with a black subapical blotch.

One imperfect specimen bred in April, larvæ found feeding on *Acacia pycnantha*, at Blackwood, South Australia.

This species is superficially very like *inscripta*, Walk., but differs in having the discal dot, a character not shared by any other known *Thalainæ*. The larva is totally different, as will be noted below. Larva of *T. hieroglyphica*—full fed, 36 mm. elongate, tapering at both ends. Head shining black, with an ochreous white blaze on each side of posterior portion, and with a few erect black hairs, face pale ochreous white. Body light-purplish black, with numerous longitudinal waved whitish ochreous fine lines, the three centre ones being thicker and more conspicuous. When in motion the larva shows two scarlet spots on the anterior portion of each segment; when at rest they are scarcely noticeable. On the twelfth segment are two raised scarlet warty protuberances. Anal segment and claspers whitish, minutely irrorated with black; claspers rather broadly lamelliform. A broad yellow longitudinal lateral stripe along whole length of body, edged on both sides with intense black. Spiracles black, placed on the yellow stripe, prolegs dull crimson. Belly pale emerald-green suffusedly edged with dull crimson. All segments clothed with very sparse (about twelve at most) stiff black hairs; full-fed October. Larva of *T. inscripta*—Full grown; length, 26 mm. Head green, with a few minute blackish scales. Body cylindrical, smooth; yellowish green; second segment with two bright orange-red spots, small, one on each side of dorsum placed on anterior part of segment; a darker green, yellowish edged, moderate, continuous band throughout entire dorsal portion of body (anal segment excepted), sparsely dusted

with blackish ; on each side of this band, and parallel to it, are two pale yellowish waved lines. A very prominent ridge-like pale yellow lateral line, edged somewhat with dark fuscous, starting from one of the orange spots on second segment, and continued uninterruptedly round body and anal segment, and returning to orange spot on opposite side. Claspers pale-green. Spiracles blackish ; prolegs whitish-yellow. Abdomen beneath pale-green with three white waved lines, one in middle and one on either side, the two latter continued the whole length of body, middle line starting from posterior pair of prolegs and ending on anterior pair of true legs.

Feeds on *Acacia decurrens*, full-fed end of September, imago emerges during April.

MNESAMPELA (?) DICTYODES, *n. sp.*

Female, 50 mm. Head, legs, palpi, and thorax blackish, with a purplish tinge ; thoracic crest large, well-developed, anteriorly tinged with light reddish-purple. Thorax very woolly beneath. Palpi very long and rough, somewhat dilated towards apex. Antennæ reddish-fuscous. Abdomen greyish. Forewings elongate-triangular. Costa strongly arched towards base, sinuate beyond middle : apex very prominent, acute. Hindmargin strongly bowed and dentate, more prominent on veins 4 and 5 ; dark purplish-fuscous, irrorated finely with blackish strigulae, which becomes so dense on basal third as to form an almost black patch, which extends rather more or less along costa to apex and hindmargin. Cilia dark coppery-fuscous. Hindwings with hindmargin strongly dentate, light fuscous-purplish, basal half whitish ; separation well defined. Cilia fuscous, paler at base. Wings beneath light dull-purplish, with a large, black, apical patch on all wings, that on hindwings more pronounced.

One specimen, bred by Mr. G. Lyell, jun., Gisborne, Victoria.

This is a curious and striking insect, and will possibly require a new genus when the male is known. In general appearance it reminds one of *Stathmorrhopa beggaria*, Gn. The form of wing and palpi are noticeable characters.

STIBAROMA PLAGIOSEMA, *n. sp.*

Male, 40 mm. ; female, 48 mm. Head, palpi, thorax, legs, and abdomen ashy grey-whitish. Thorax with two narrow, transverse, black bands, meeting in middle. Abdomen with black rings, edged with white. Antennæ fuscous, pectinations four. Forewings elongate triangular. Costa gently arched, more so in female ; hindmargin hardly waved, rounded, oblique ; ashy-grey-whitish, densely strewn with dark-fuscous scales, in the male with some obscure fuscous-reddish patches ; markings black ; a narrow

outwards curved line close to base ; a second, curved from one-fifth costa to about one-third inner-margin ; a third, more obscure, from before middle of costa to middle of inner-margin, dentate inwards on lower half ; a fourth from before three-fourth of costa to beyond two-thirds of inner-margin, bent inwards on lower half ; an elongate spot in disc above middle, between third and fourth lines, near fourth ; a fine waved blackish hindmarginal line ; cilia white, with black points at extremities of veins. Hindwings with hindmargin irregularly waved, rounded ; whitish in male, darker in female ; a black discal dot ; a fine waved line, blackish, from three-fourths costa to near anal angle ; a suffused blackish hindmarginal band darker anteriorly ; hindmarginal line and cilia as in forewings. Markings of hindwings more strongly defined on underside. The present is intermediate between *melanotora*, Meyr., and *trigramma*, Lower, but nearer the latter. This and the two above-mentioned form a closely-connected group.

Gisborne, Victoria.

XYLORYCTIDÆ.

PLECTOPHILA PLACOCOSMA, *n. sp.*

Female, 14 mm. Head and thorax snow-white, palpi and antennæ dark fuscous, terminal joint of palpi and an apical ring of second joint white ; basal joint of antennæ whitish. Abdomen and legs yellow, anterior and middle tibia mixed with fuscous. Forewings moderate ; costa gently arched, apex obtuse, hindmargin obliquely rounded ; white, slightly ochreous tinged ; a broad dark fuscous fascia suffused on lower half, anterior edge curved from one-sixth costa to one-sixth inner-margin ; a large irregular fuscous patch on costa beyond middle, reaching more than half across wing, anterior edge preceded by a blackish discal spot ; a large fuscous patch on hindmargin from apex to anal angle ; a fuscous hindmarginal line, separated from preceding patch by a streak of ground-colour ; cilia yellowish, with a fuscous apical spot. Hindwings yellowish, with a broad fuscous suffusion occupying posterior two-thirds of wing ; cilia yellowish, with a blackish line, double at apex.

Sydney, New South Wales. One specimen from Mr. W. W. Froggatt.

GEOPHORIDÆ.

PHILOBOTA PENTAMERA, *n. sp.*

Female, 22 mm. Head dark fuscous, palpi and thorax white, thorax with a narrow fuscous anterior band, terminal joint of palpi externally fuscous. Legs and abdomen ochreous-yellow, anterior legs infuscated. Forewings moderate, costa arched,

more strongly at base, apex obtuse, hindmargin rounded oblique ; a broad dark fuscous fascia almost from middle of costa to middle of inner-margin, anterior edge with a short projecting tooth in middle, posterior edge somewhat suffused ; the ground-colour between fascia and base is white, faintly ochreous tinged, except a short fuscous streak on costa at base ; the colour beyond the posterior edge of fascia is bright yellow, except a broad dark-fuscous hindmarginal band, which contains an ill-defined yellow spot in its lowest extremity ; the median third of this band projects so as to nearly touch the median fascia ; cilia bright yellow, at anal angle dark fuscous. Hindwings with the hindmargin rounded ; yellow ; a fuscous hindmarginal band, broadest at apex, and not reaching anal angle ; cilia yellow, infuscated towards median third.

One specimen from Gisborne, Victoria, received from Mr. G. Lyell, jun. This species is in the neighbourhood of *ophiodes*, Meyr., and *signophora*, Meyr., but nearer the latter.

CASYRA KERSHAWI, *n. sp.*

Male and female, 16 and 17 mm. Head and palpi yellow, thorax and abdomen purplish-fuscous. Legs and antennæ dark fuscous, antennæ annulated with ochreous, posterior legs ochreous tinged. Forewings moderate, costa gently arched, apex obtuse, hindmargin rounded oblique ; bright-ochreous yellow ; a narrow fuscous purple basal fascia ; a hindmarginal band of purple-fuscous, occupying apical two-fifths of wing, darker on margins, and containing a roundish spot of ground-colour on costa ; cilia purplish-fuscous, with a darker median line, tips paler. Hindwings with hindmargin rounded ; dark bronzy-fuscous ; cilia bronzy-fuscous.

Four specimens, Springvale, Victoria, received from Mr. J. A. Kershaw, to whom the species is dedicated. It is nearest *dichroella*, Zeller, but narrower winged, and separable by the spot of ground-colour in band.

NOTE.

Euproctis pelodes, Trans. Roy. Soc., S.A., p. 150, vol. XVII, 1893. The size is 25 mm.

Sterrha aglaodesma, p. 157, l.c. The size should be 21 mm